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Roll No. Total	No. o	of Page:	s : (02
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Total No. of Questions: 19

M.Sc. (Chemistry) Campus (2015 to 2017) (Sem.-1)
ENVIRONMENTAL SCIENCES

Subject Code : CHL-406

M.Code: 51145

Time: 3 Hrs. Max. Marks: 70

INSTRUCTIONS TO CANDIDATES:

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- SECTION-B contains SIX questions carrying FIVE marks each and students have to attempt ALL questions.
- SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

Answer Briefly:

- Which layer is called coldest layer of atmosphere?
- 2. Enumerate two types of Biogenic salts.
- 3. Name any two gaseous cycles,
- 4. What is the purpose of preliminary treatment in waste water treatment?
- Define BOD.
- 6. What is Residual chloride?
- Mention types of solid wastes.
- 8. Identify a common exposure pathway of lead and an associated health effect.
- Define Cationic Detergents.
- 10. What is Green house effect?

1 M-51145 (S39)-2378





SECTION-B

- With the help of figure, show four distinct zones of atmosphere.
- Give instrumental methods of analysis of environmental pollutants.
- Give qualitative and quantitative estimates of pesticides.
- 14. "Global warming, destruction of ozone layer and acid rain are global problems that cannot be dealt with by the mostly local regulations used for other air pollutants." Justify the statement.
- Comment on the microbial decomposition of polymers.
- Discuss in brief chemical solutions to environmental problems.

SECTION-C

- There are two types of water quality parameters: Chemical and Biological. Discuss any three chemical and any two biological water quality parameters.
- (a) What are hydrocarbons? Describe the source and sinks, effects and containment of hydrocarbons.
 - (b) What are the four basic elements which affect the efficiency of combustion as a pollution control device?
- 19. (a) State various sources/causes of Thermal Pollution.
 - (b) How liquid radioactive wastes are classified and disposed off? Which precautions are required after disposal of radio-active wastes?

NOTE: Disclosure of Identity by writing Mobile No. or making of passing request on any page of Answer sheet will lead to UMC against the Student.

2 | M-51145 (S39)-2378

